



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

Eco Window Systems, LLC.
7955 NW 77th Avenue
Medley, FL 33166

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "100 ECO-Guard" Aluminum Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W09-08**, titled "ECO-Guard Series-100 Alum. S.H. Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 02/12/09, with revision A dated 02/15/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # **09-0224.07** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



MP
4/23/12

NOA No. 12-0223.24
Expiration Date: April 08, 2014
Approval Date: May 03, 2012
Page 1

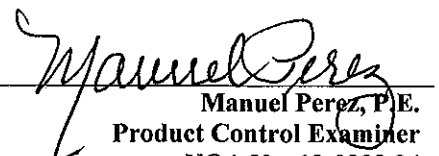
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W09-08**, titled "ECO-Guard Series-100 Alum. S.H. Wdw. (L.M.I.)", sheets 1 through 6 of 6, dated 02/12/09, with revision A dated 02/15/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of a 106-1/2" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-08-2166A**, dated 12/15/09, signed and sealed by Candido F. Font, P.E.
(Submitted under previous NOA#09-0224.07)
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a 106-1/2" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-08-2166C**, dated 12/ 15, 2009, signed and sealed by Candido F. Font, P.E.
(Submitted under previous NOA#09-0224.07)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of a 53-1/4" wide x 76" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-08-2168**, dated 12/15/09, signed and sealed by Candido F. Font, P.E.
(Submitted under previous NOA#09-0224.07)
4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a 53-1/4" wide x 76-1/4" high ECO-Guard Series 100 aluminum single hung window, prepared by Hurricane Engineering & Testing Inc. Test Report No. **HETI-08-2170**, dated 12/15/09, signed and sealed by Candido F. Font, P.E.
(Submitted under previous NOA#09-0224.07)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0223.24
Expiration Date: April 08, 2014
Approval Date: May 03, 2012

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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2010, dated 01/30/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **11-0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.

F. STATEMENTS

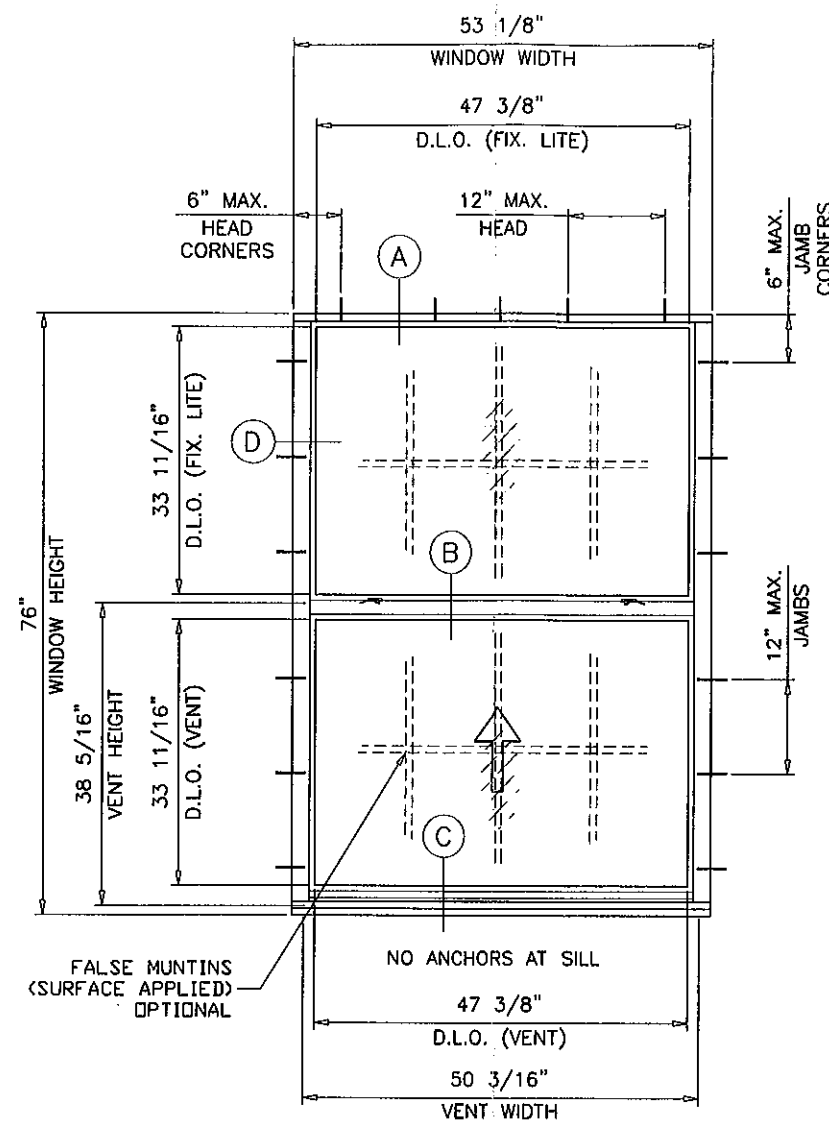
1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated January 30, 2012, signed and sealed by Javad Ahmad, P.E.

G. OTHER

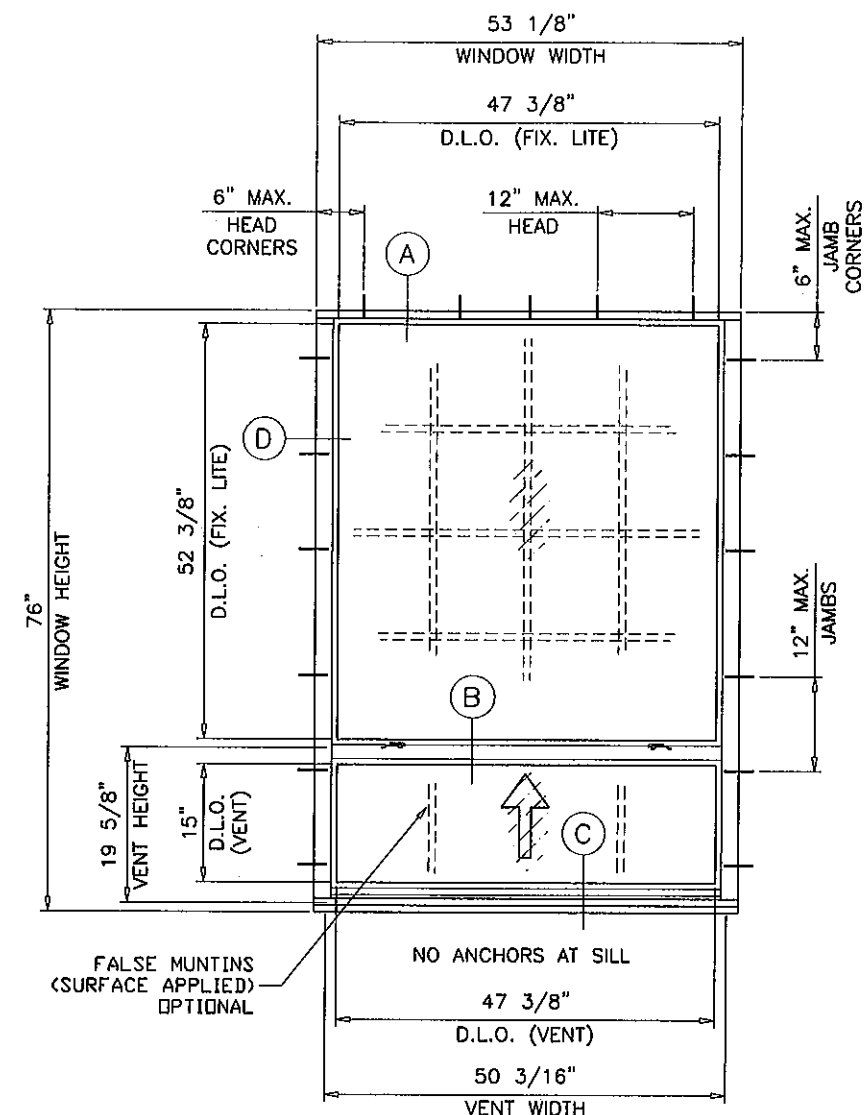
1. Notice of Acceptance No. **09-0224.07**, issued to ECO Window Systems. LLC for their "ECO-Guard Series-100 Aluminum Single Hung Window – L.M.I.", approved on 04/08/09 and expiring on 04/08/14.



Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0223.24
Expiration Date: April 08, 2014
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EQUAL LITES



UNEQUAL LITES (ORIEL TYPE)

TYPICAL ELEVATIONS
TESTED UNITS

ECO-GUARD SERIES-100 **ALUMINUM SINGLE HUNG WINDOW**

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEETS 2.

APPROVAL APPLIES TO SINGLE UNITS OR SIDE BY SIDE COMBINATIONS OF S.H./S.H. OR SINGLE HUNG WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

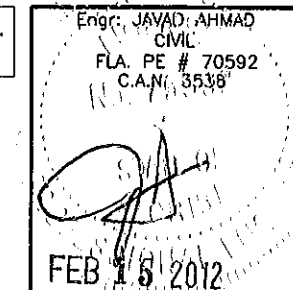
ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0223.24
Expiration Date APRIL 8, 2014
By: *Mamuel Perez*
Miami Dade Product Control

afC

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978

ECO-GUARD SERIES-100 ALUM S.H. WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
7955 N.W. 77 AVE.
MEDLEY, FL. 33166
TEL. (305) 882-1144 FAX (305) 885-5902

revisions:	no.	date	by	description
	A	02.15.12		UPDATED TO 2010 FBC

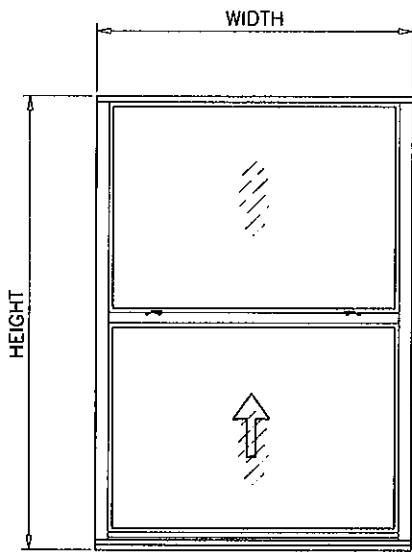
date:	02-12-09
scale:	1/2" = 1'-0"
dr. by:	HAMID
chk. by:	

drawing no.
W09-08

sheet 1 of 6

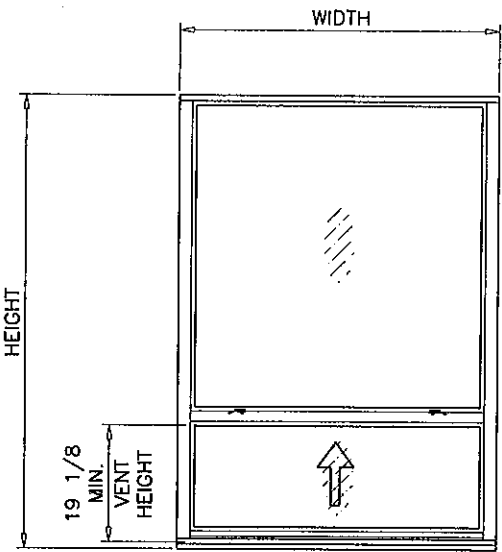
COMP-ANL\W09-08ECO

EQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
FLANGE DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26" (3)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	38-3/8" (3)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	50-5/8" (4)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	63" (5)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	76" (6)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0



EQUAL LITES

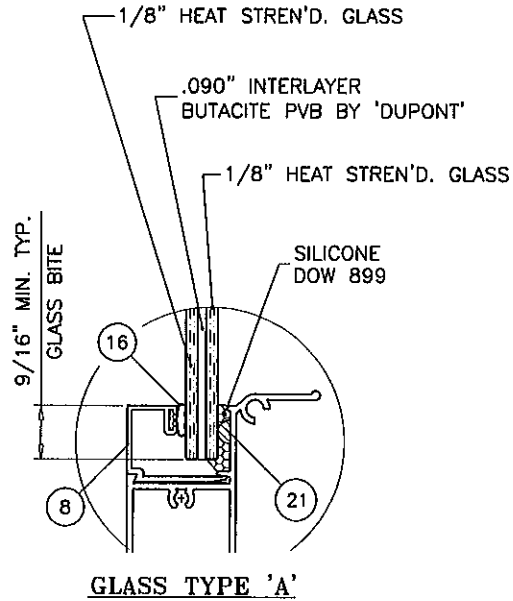
UNEQUAL LITES WINDOWS					
DESIGN LOAD CAPACITY - PSF					
FLANGE DIMS.		GLASS TYPE 'A'		GLASS TYPE 'B'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	50-5/8" (4)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	63" (5)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0
19-1/8"	76" (6)	75.0	90.0	75.0	90.0
24"		75.0	90.0	75.0	90.0
26-1/2"		75.0	90.0	75.0	90.0
32"		75.0	90.0	75.0	90.0
37"		75.0	90.0	75.0	90.0
40"		75.0	90.0	75.0	90.0
48"		75.0	90.0	75.0	90.0
53-1/8"		75.0	90.0	75.0	90.0



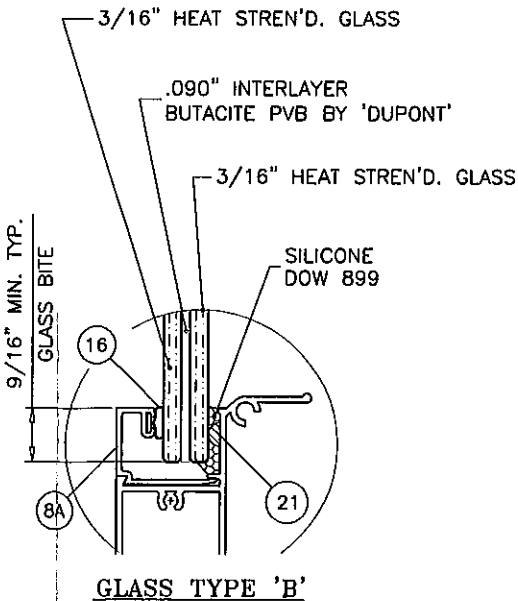
UNEQUAL LITES (ORIEL TYPE)

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.

* NO. IN PARENTHESIS INDICATE NO. OF ANCHORS PER JAMB.



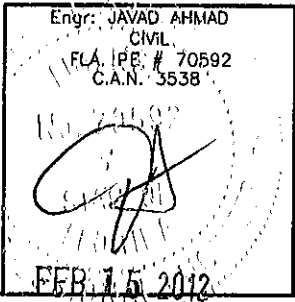
GLASS TYPE 'A'



GLASS TYPE 'B'

GLAZING OPTIONS

NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0223.24
Expiration Date APRIL 8, 2014
By *Mamuel Perez*
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL (305) 264-8100 FAX (305) 262-6978
COMP-ANL\W09-08ECO

ECO-GUARD SERIES-100 ALUM S.H. WDW. (L.M.I.)

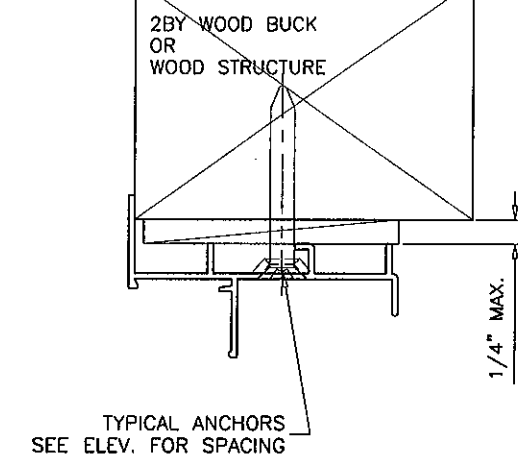
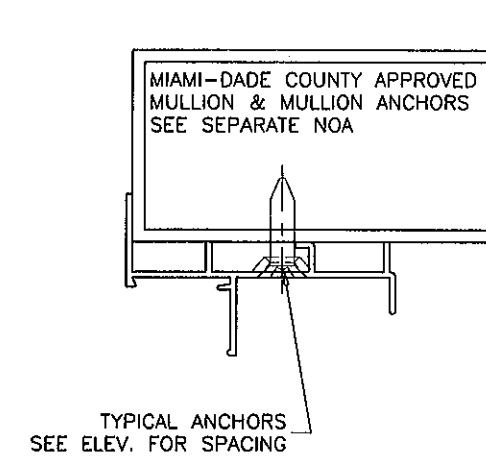
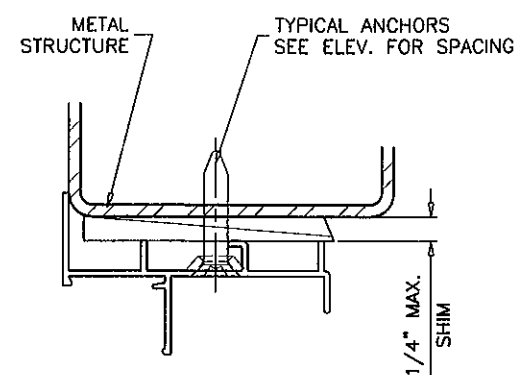
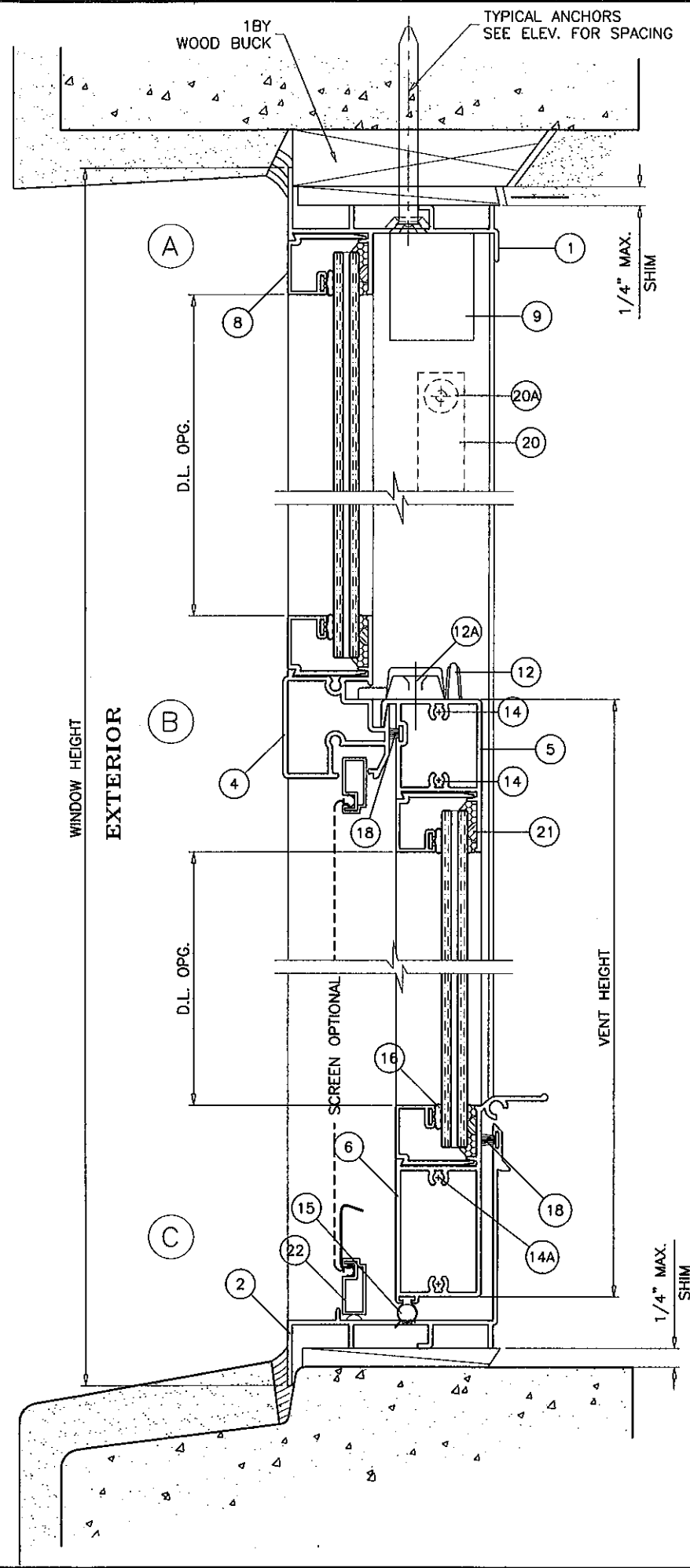
ECO WINDOW SYSTEMS, LLC.
7955 N.W. 77 AVE.
MEDLEY, FL. 33166
TEL. (305) 882-1144 FAX (305) 885-5902

Revisions:

no	date	by	description
1	02.15.12	A	NO CHANGE THIS SHEET

date: 02-12-09
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

drawing no.
W09-08
sheet 2 of 6



WOOD BUCKS AND METAL STRUCTURE NOT BY ECO WDW. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING
1/4" DIA. TAPCON BY 'ITW' (Fu=120 KSI, Fy=92 KSI)
 INTO 2BY WOOD BUCKS OR WOOD STRUCTURES
 1-1/2" MIN. PENETRATION INTO WOOD
 THRU 1BY BUCKS INTO CONC. OR MASONRY
 1-1/4" MIN. EMBED INTO CONC. OR MASONRY
 DIRECTLY INTO CONC. OR MASONRY
 1-1/2" MIN. EMBED INTO CONC. OR MASONRY
1/4" DIA. TEKS OR SELF DRILLING SCREWS (GRADE 5 CRS)
 INTO METAL STRUCTURES
 STEEL : 1/8" THK. MIN. (Fy = 36 KSI MIN.)
 ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)
 (STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)
#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)
 INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
 (NO SHIM SPACE)
TYPICAL EDGE DISTANCE
 INTO CONCRETE AND MASONRY = 2-1/2" MIN.
 INTO WOOD STRUCTURE = 1" MIN.
 INTO METAL STRUCTURE = 3/4" MIN.
 CONCRETE f'c = 3000 PSI MIN.
 MASONRY f'm = 2000 PSI MIN.

SEALANT:
 ALL JOINTS AND FRAME CONNECTIONS SEALED WITH JOINT SEALER.

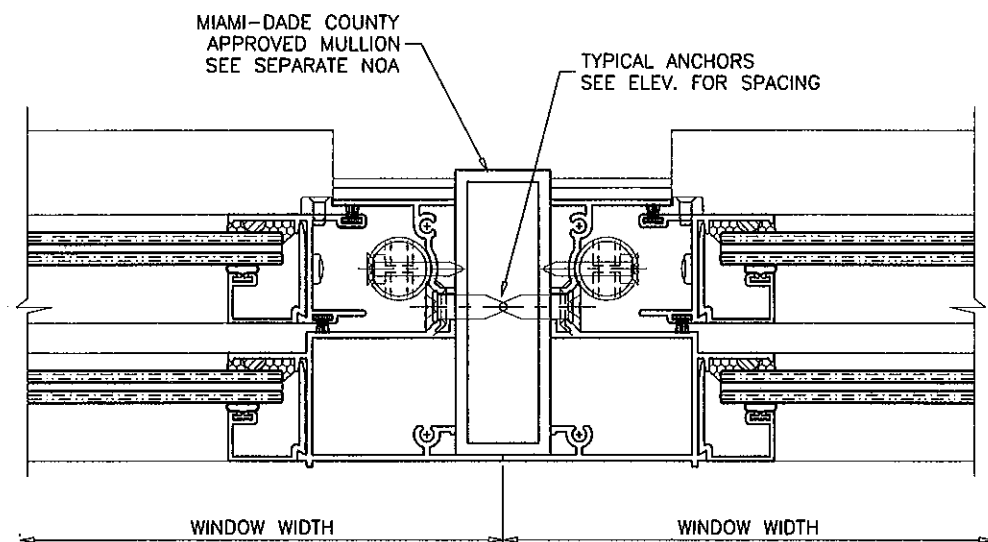
Engr: JAVAD AHMAD
 CIVIL
 FLA. PE # 70592
 C.A.N. 3538
 FEB 15 2012

PRODUCT REVISED
 as complying with the Florida
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 By *Manuel Perez*
 Miami Dade Product Control

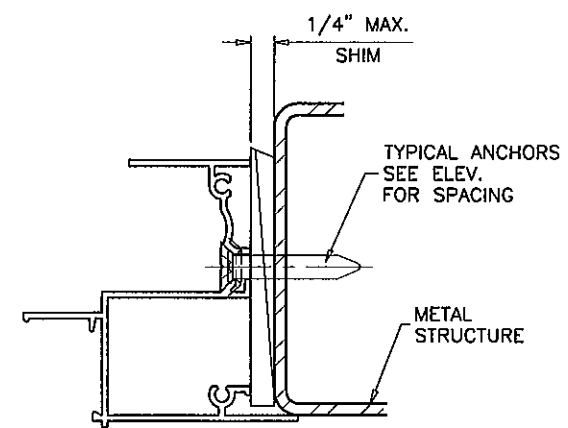
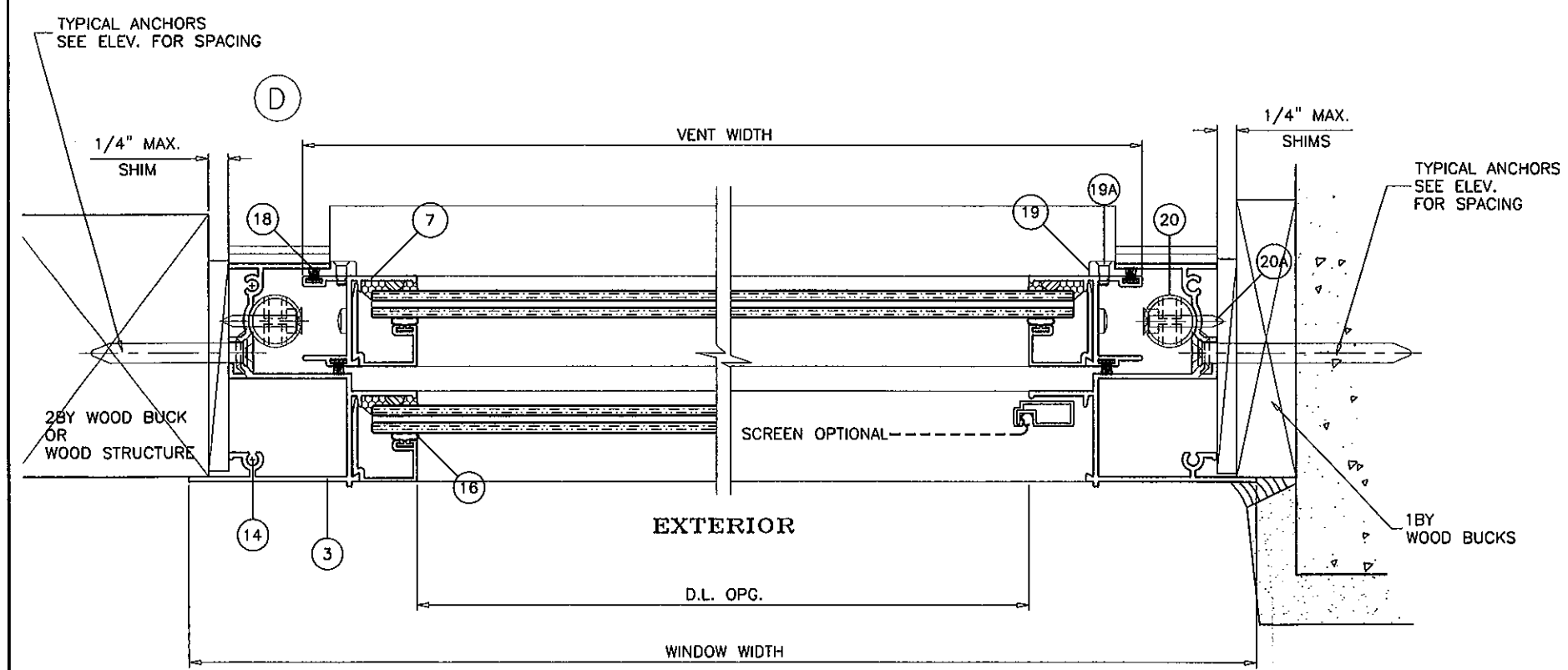
af c
AL-FAROOQ CORPORATION
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Revisions:		no	date	by	description
		A	02.15.12		NO CHANGE THIS SHEET
date:	02-12-09	scale:	1/2" = 1"	dr. by:	HAMID
				chk. by:	
drawing no.		W09-08			
sheet		3 of 6			



ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	FY101	1	FRAME HEAD	6063-T6	-
2	FY115	1	FRAME SILL	6063-T6	-
3	FY103	2	FRAME JAMB	6063-T6	-
4	FY104	1	FIXED MTG. RAIL	6063-T6	-
5	FY105	1	VENT TOP RAIL	6063-T6	-
6	FY114	1	VENT BOTTOM RAIL	6063-T6	-
7	FY107	2	VENT SIDE RAIL	6063-T6	-
8	FY108	AS REQD.	GLAZING BEAD (5/16" LAM. GLASS)	6063-T6	-
8A	FY109	AS REQD.	GLAZING BEAD (7/16" LAM. GLASS)	6063-T6	-
9	FY116	2/VENT	SASH STOP	6063-T5	-
12	SL203P	2/VENT	SWEEP LATCH, AT 12-1/2" FROM ENDS	ZAMAK	SULLIVAN & ASSOC.
12A	#8 X 5/8"	2/ LATCH	LATCH INST. SCREWS	ST. STEEL	FH SMS
14	#8 X 1"	AS REQD.	FRAME & VENT ASSEMBLY SCREWS	CRS	PH SMS
14A	#8 X 3/8"	2/ VENT	BOTTOM RAIL ASSEMBLY SCREWS	CRS	PH SMS
15	E207	AS REQD.	BOTTOM RAIL SEAL - SERIES 101	NEOPRENE	ULTRAFAB
16	E203	AS REQD.	GLAZING BEAD BULB	SANTOPRENE	ULTRAFAB
18	W231B1	AS REQD.	FIN SEAL W'STRIPPING	-	ULTRAFAB
19	FY117	4/ VENT	SASH GUIDE	CELCON	M&M PLASTICS
19A	#6 X 3/8"	1/ GUIDE	SASH GUIDE INST. SCREW	CRS	OH SMS TYPE B
20	F210	2/VENT	SASH BALANCE	-	SUPERBOOST BY BSI
20A	#8 X 5/8"	1/ BALANCE	BALANCE INST. SCREW	-	P FH SMS
21	-	AS REQD.	GLASS SPACER	SILICONE	FRANK LOWE
22	-	1	5/16" BOX SCREEN	-	OPTIONAL
23	FY120	-	FLUSH FRAME ADAPTER	6063-T6	OPTIONAL



Engr: JAVAD AHMAD
CIVIL
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no	date	by	description
A	02.15.12		NO CHANGE THIS SHEET

date: 02-12-09

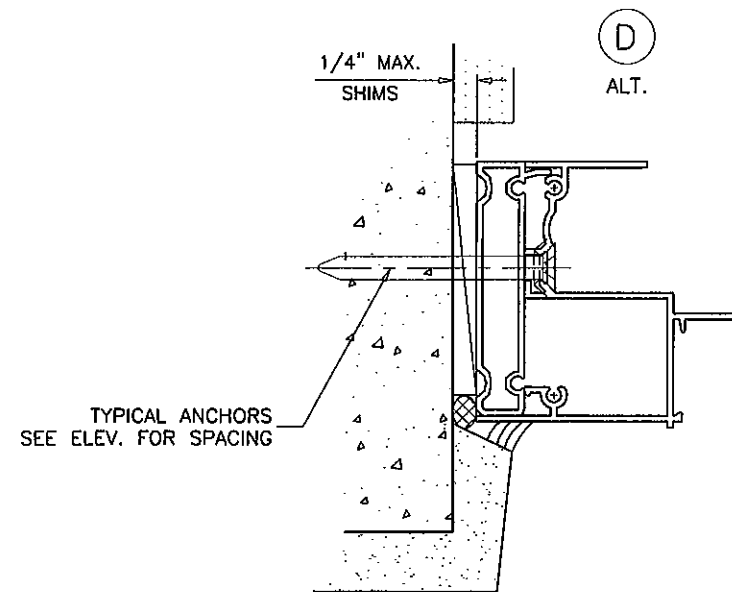
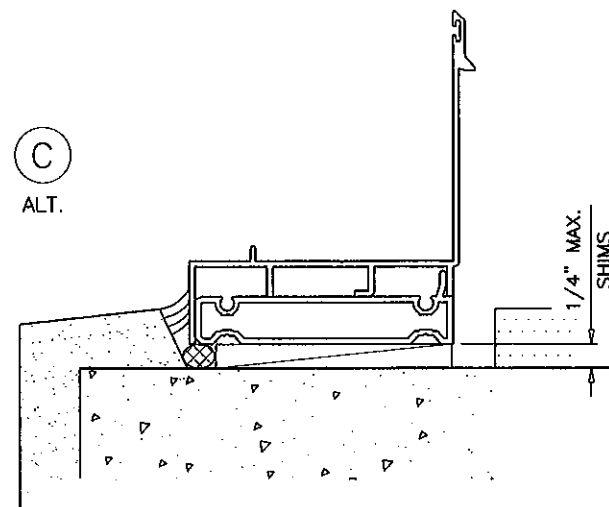
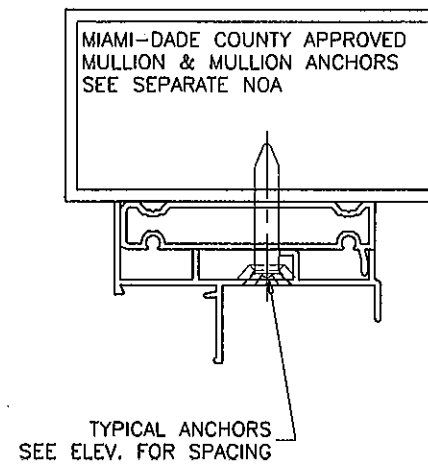
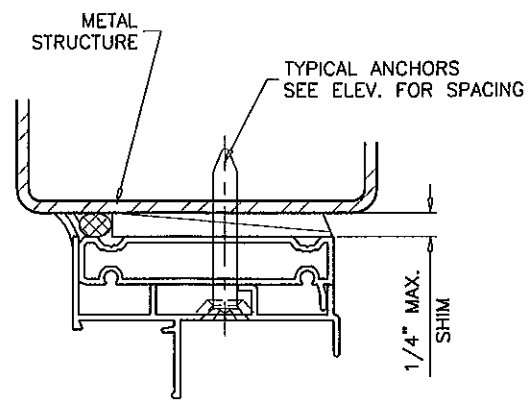
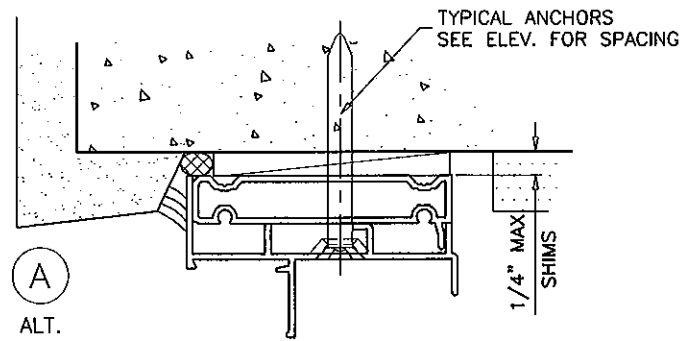
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dr. by: HAMID

chk. by:

drawing no.
W09-08

sheet 4 of 6



INSTALLATION DETAILS WITH FLUSH FRAME ADAPTER

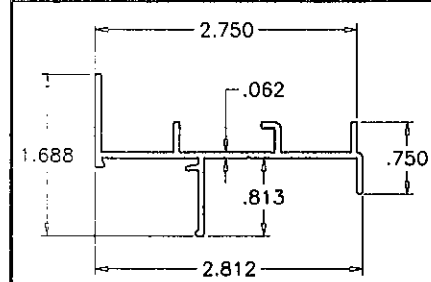
Engr: JAWAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3838
FEB 15 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0223-24
Expiration Date APRIL 8, 2014
By *Mamuk Suez*
Miami Dade Product Control

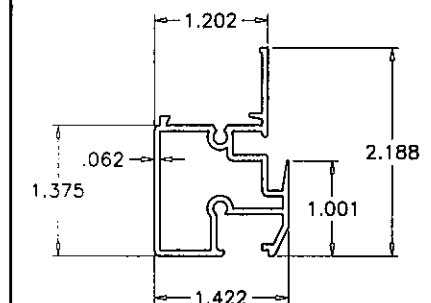
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL\W09-08ECO

ECO-GUARD SERIES-100 ALUM S.H. WDW. (L.M.I.)
ECO WINDOW SYSTEMS, LLC.
7955 N.W. 77 AVE.
MEDLEY, FL. 33166
TEL. (305) 882-1144 FAX (305) 885-5902

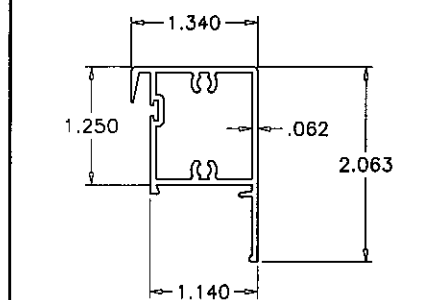
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dr. by:	HAMID					
chk. by:						
drawing no.	W09-08					
sheet 5 of	6					



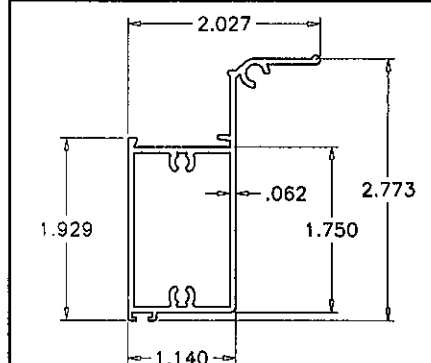
1 FRAME HEAD



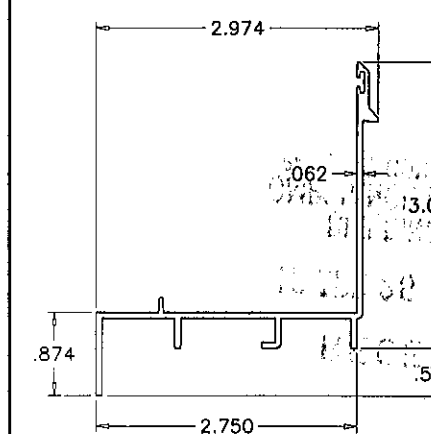
4 FIX. MEETING RAIL



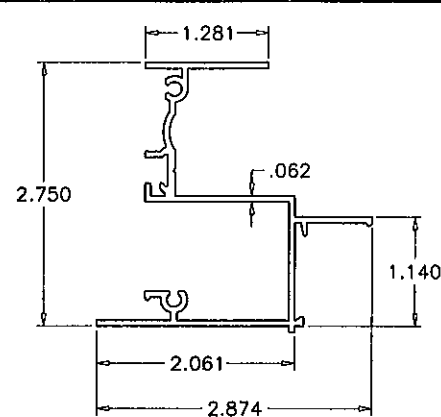
5 VENT TOP RAIL



6 VENT BOTTOM RAIL



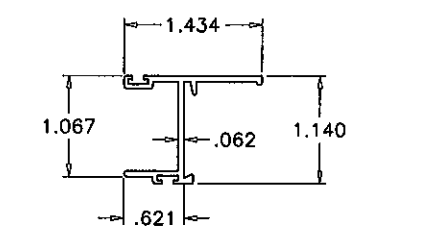
2 FRAME SILL



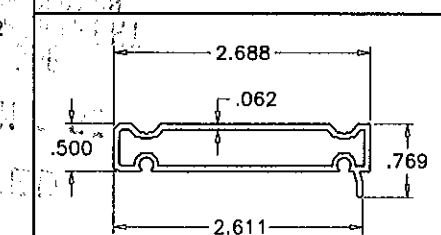
3 FRAME JAMB



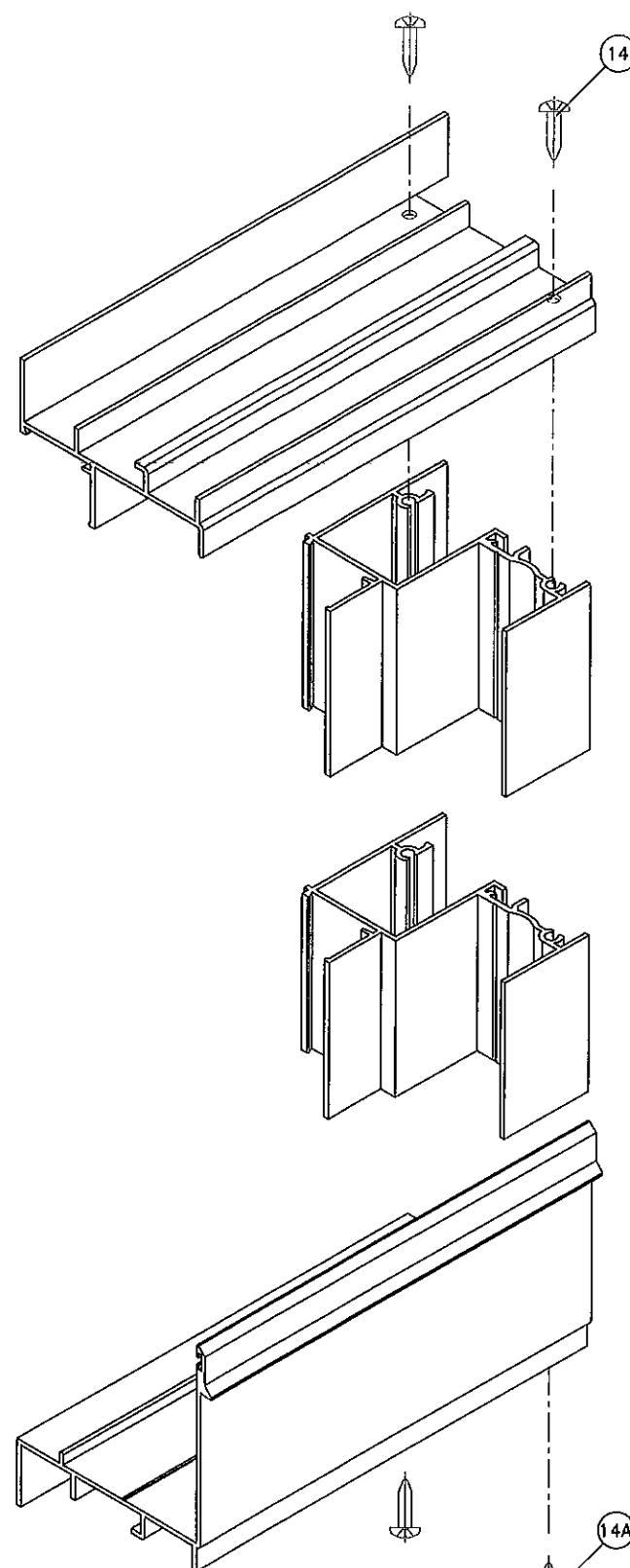
8 GLAZING BEADS



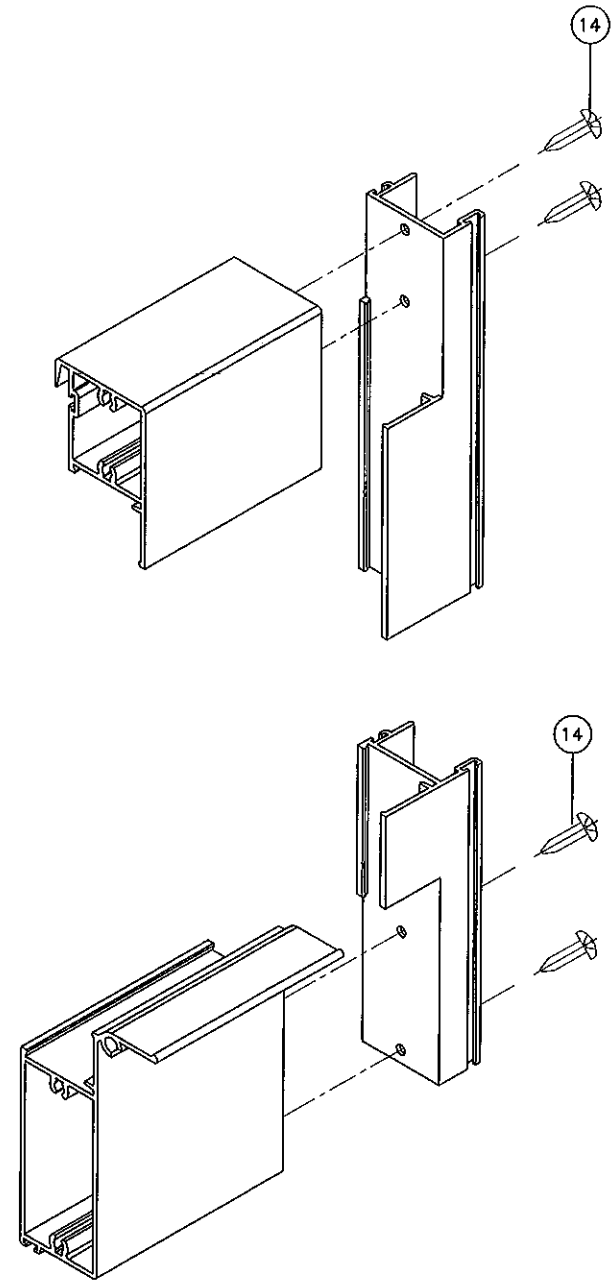
7 VENT SIDE RAIL



23 FLUSH FRAME ADAPTER



FRAME CORNERS DETAIL



VENT CORNER DETAIL

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
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no	date	02-12-09	1/2" = 1"	HAMID	
1	02.15.12	NO CHANGE THIS SHEET			

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W09-08

sheet 6 of 6